

## **FACT SHEET**

### **DRAFT HWMA/RCRA PARTIAL-CLOSURE PLAN FOR THE RARE GAS PLANT NORTH GAS CELL TANK SYSTEM AT THE IDAHO NUCLEAR TECHNOLOGY AND ENGINEERING CENTER LOCATED AT THE IDAHO NATIONAL LABORATORY EPA ID NO. ID4890008952**

This fact sheet sets forth the principal facts pertaining to a draft closure plan that the Idaho Department of Environmental Quality (DEQ) is proposing to approve. The closure plan presents the applicable closure requirements the DEQ intends to require of the United States Department of Energy (DOE) associated with the Rare Gas Plant North Gas Cell System in Building 604 of the Idaho Nuclear Technology and Engineering Center (INTEC) at the Idaho National Laboratory.

#### **A. PURPOSE OF THE CLOSURE PLAN**

Closure plans designate specific administrative and procedural requirements the owner/operator must meet in order to comply with Idaho's Hazardous Waste Management Act (HWMA) of 1983, as amended. DEQ reviewed, and now proposes to approve, the draft plan to close the Rare Gas Plant North Cell System.

#### **B. PROCEDURES FOR REACHING A FINAL DECISION**

IDAPA 58.01.05.009[40 CFR § 265.112(d)(4)] requires that the public be given thirty (30) calendar days to comment on the draft closure plan presented for approval under the HWMA. The comment period will begin March 27, 2008, and will end on April 28, 2008. Any person interested in commenting on this plan must do so within this thirty (30) calendar day comment period.

At the discretion of the Director of the DEQ, a public hearing may be provided if signed, written requests for a hearing are submitted personally, or sent to the address below, and received on or before April 28, 2008, the close of the comment period. All persons wishing to comment on the partial-closure plan's conditions should submit comments in writing to:

*Robert Bullock  
c/o Jennifer Shafer  
DEQ Waste Management & Remediation Division  
1410 N. Hilton  
Boise, ID 83706  
Phone: (208) 373-0502*

Written comments must be based on all reasonably available information and include, to the extent practicable, all referenced factual materials (except those materials identified as being in the INL administrative record). Requests for a public hearing shall provide: (1) a clear and concise factual statement of the nature and scope of the interest of the person requesting the hearing; (2) the name and address of all persons whom the requestor represents; (3) a statement of any objections to the proposed action, including specific references to any requirements being

addressed; and (4) a statement of the issues which the commenter proposes to raise for consideration at the hearing.

When making the final determination regarding the approval of this partial-closure plan, DEQ will consider all written comments received during the public comment period; comments received during the public hearing (if held); the requirements of the hazardous waste regulations of IDAPA 58.01.05.000 et. seq. and all other applicable federal, state or local laws.

#### C. FACILITY/UNIT DESCRIPTION

The Rare Gas Plant North Gas Cell System consists of two 2000 gallon dissolver off-gas hold (collection) tanks; two packed tower (44 gallon empty, 27 gallon packed capacity) iodine absorption, a 43 gallon receiver tank below the iodine absorbers, and associated piping. The dissolver collection tanks received the off-gas from nuclear fuel dissolution activities at INTEC. A caustic scrubbing solution was used to remove nitrogen oxides from the off gas within the hold tanks resulting in the characteristic of corrosivity being applied to these tanks and associated piping. The iodine absorption system used a silver nitrate solution to react with the iodine in the packed towers resulting in the system having the hazardous characteristic of silver toxicity.

#### D. CLOSURE ACTIVITIES

Closure activities will consist of decontamination of the dissolver off gas tanks and associated piping. The beryl saddle packing will be removed from the iodine absorption towers and the remaining system including piping will be decontaminated. Samples of the final rinse will be collected and analyzed to ensure the closure performance criteria have been achieved. The rinsates will be managed through the INTEC Liquid Waste Management System and the beryl saddles will be analyzed and disposed of appropriately.

#### E. CLOSURE PLAN ORGANIZATION

The closure plan is divided into ten sections and one attachment as follows:

SECTION	TITLE
1	INTRODUCTION
2	FACILITY DESCRIPTION
3	CURRENT AND MAXIMUM HAZARDOUS WASTE INVENTORY AND CHARACTERISTICS
4	CLOSURE PERFORMANCE STANDARD
5	CLOSURE ACTIVITIES
6	CLOSURE SCHEDULE
7	CLOSURE PLAN AMENDMENTS
8	CERTIFICATION OF CLOSURE
9	COST AND LIABILITY REQUIREMENTS
10	REFERENCES
ATTACHMENT	Sampling Procedure of the INTEC Rare Gas Plant North Gas Cell System